Engineering/Process Change Notice

ECN/PCN No.: R0509

For Manufacturer			
Product Description: TRI-BAND WI-FI 6E/7 PCB ANTENNA	**Abracon Part Number / Part Series:** AANI-FB-0083	☐ Documentation only ☒ ECN ☐ EOL	☐ Series ☐ Part Number
Affected Revision: C	**New Revision:** D	**Application**:	☐ Safety ☒ Non-Safety

Prior to Change:

TRI BAND WI-FI 6E/7 PCB ANTENNA

AANI-FB-0083 | Request Samples | Check Inventory | 41 x 9 x 0.7 mm | RoHS Compliant | MSL Level = N/A

Electrical Specification

Parameter	Specification			Unit
Operating Frequency	2400 – 2483.5	5150 - 5850	5925 - 7125	MHz
VSWR (Typ.)	< 2.5			
Peak gain	2.6	3.9	4.2	dBi
Efficiency (Avg.)	91.5	87.3	72.1	%
Impedance	50			Ω
Polarization	Linear			
Radiation Pattern	Omni-directional			

Mechanical Specification

Parameter	Specification
Antenna Dimensions	41 x 9 x 0.7 mm
Antenna Type	Flexible Printed Circuit
Mounting Type	Adhesive
RF Connector (1)	MHF1, MHF4
RF Cable Type (1)	Ø1.13 mm
Cable Length (1)	50 mm, 100 mm, 150 mm, 200 mm, 250 mm, 300 mm, 350mm

(1): Fully customizable RF Cable & Connector

Environmental Specification

Parameter	Specification
Operating Temperature	-40°C to +85°C
Storage Temperature	-40°C to +85°C
RoHS Complaint	Yes
PB Free	Yes

After Change:

TRI BAND WI-FI 6E/7 PCB ANTENNA

AANI-FB-0083 | Request Samples | Check Inventory | 41 x 9 x 0.7 mm | RoHS Compliant | MSL Level = N/A

Electrical Specification

Parameter	Specification			Unit
Operating Frequency	2400 – 2483.5	5150 - 5850	5925 - 7125	MHz
VSWR (Typ.)	< 2.5			
Peak gain	2.6	3.9	4.2	dBi
Efficiency (Avg.)	91.5	87.3	72.1	%
Impedance	50			Ω
Polarization	Linear			
Radiation Pattern	Omni-directional			

Mechanical Specification

Parameter	Specification
Antenna Dimensions	41 x 9 x 0.7 mm
Antenna Type	Rigid PCB
Mounting Type	Adhesive
RF Connector (1)	MHF1, MHF4
RF Cable Type (1)	Ø1.13 mm
Cable Length (1)	50 mm, 100 mm, 150 mm, 200 mm, 250 mm, 300 mm, 350mm

(1): Fully customizable RF Cable & Connector

Environmental Specification

Parameter	Specification
Operating Temperature	-40°C to +85°C
Storage Temperature	-40°C to +85°C
RoHS Complaint	Yes
PB Free	Yes

Cause/Reason for Change: Updated PCB and sponge specification

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Change Plan		
Effective Date: 06/09/2026	**Additional Remarks:**	
Change Declaration:		
Issued Date: 06/09/2026	**Issued By:** Allan	**Issued Department:** Engineering
Approval: *Saravanan Subramanian* Engineering Director	**Approval:** *Reuben Quintanilla* Quality Director	**Approval:** *Ying Huang* Purchasing Director

For Abracon EOL only		
Last Time Buy (if applicable):	**Alternate Part Number / Part Series:**	
Additional Approval:	**Additional Approval:**	**Additional Approval:**

Customer Approval (If Applicable)		
Qualification Status: ☐ Approved ☐ Not accepted *Note: It is considered approved if there is no feedback from the customer 1 month after ECN/PCN is released.*		
Customer Part Number:	**Customer Project:**	
Company Name:	**Company Representative:**	**Representative Signature:**
Customer Remarks:		

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